DOCUMENT RESUME

ED 159 218 TM 007 696

AUTHOR Egelston, Richard L.
TITLE A Stochastic Decision Model for Experiments in Discrimination Learning.
NOTE 103p.; Parts may not reproduce clearly; Best copy available

EDRS PRICE MF-$0.83 HC-$6.01 Plus Postage.
DESCRIPTORS Computer Programs; *Decision Making; *Discrimination Learning; Expectancy Tables; *Hypothesis Testing; *Learning; *Mathematical Models; Probability; *Probability Theory; Research Methodology; Tables (Data)

ABSTRACT

Decisions to terminate training for subjects involved with discrete trial experiments in discrimination learning should utilize a probability criterion rather than a deterministic criterion. Furthermore, these decisions should be based upon the number of correct and error responses made by the subject, with the decision made to terminate training or continue training following each correct response of the subject. The decision model presented in this paper is based upon the binomial and negative binomial probability distributions. The model is particularly useful when subsequent discrimination training is performed, or when between-group comparisons are made. Since terminal runs of varying lengths will be found with different subjects for the same decision level, it becomes possible to experimentally control for the effects of overtraining by holding decision levels constant within groups of subjects. Application of the model is equivalent to testing the hypothesis that a terminal run of correct responses of length x could have occurred on the basis of chance, conditional upon the respective total numbers of prior correct and error responses. Eighty-three tables for four levels of significance are provided. Since the experimenter may wish to use decision levels different from those provided, a computer program is provided for producing tables to different specifications. (Author/CTM)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

U S DEPARTMENT OF HEALTH, EDUCATION & WELFARE NATIONAL INSTITUTE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

BEST COPY AVAILABLE

A Stochastic Decision Model for Experiments In Discrimination Learning

Richard L. Egelston

Educational Research and Service Center

The University at Albany

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

Richard L. Egelston

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC) AND USERS OF THE ERIC SYSTEM."

ED159218

BEST COPY AVAILABLE

TM007 696

ABSTRACT

Decisions to terminate training for subjects involved with discrete trial experiments in discrimination learning should utilize a probability criterion rather than a deterministic criterion. Furthermore, these decisions should be based upon the numbers of correct and error responses made by the subject, with the decision made to terminate training or continue training following each correct response of the subject. The decision model presented in this paper is based upon the binomial and negative binomial probability distributions. The model is particularly useful when subsequent discrimination training is performed, or when between-group comparisons are made. Since terminal runs of varying lengths will be found with different subjects for the same decision level, it becomes possible to experimentally control for the effects of overtraining by holding decision levels constant within groups of subjects.

Application of the model is equivalent to testing the hypothesis that a terminal run of correct responses of length x could have occurred on the basis of chance, conditional upon the respective total numbers of prior correct and error responses. Tables for four levels of significance are provided. Since the experimenter may wish to use decision levels different from those provided, a computer program is provided for producing tables to different specifications.

A Stochastic Decision Model for Experiments In Discrimination Learning[1]

Richard L. Egelston
The University at Albany

Traditionally, experimenters in human and animal learning have used probabilistic models (e.g. analysis of variance) for comparing groups of subjects on some types of performance criterion. It is assumed that the input data for these analyses have met the usual criteria for parametric tests, and that the raw scores for all subjects are equally valid. However, if the raw scores depend upon some type of subjective judgment by the experimenter, such as whether or not the subject has learned, the scores of individual subjects may not be equally valid.

While most researchers conducting experiments in learning interpret learning, in part, as ". . .a relatively permanent change in a behavioral tendency brought about by reinforced practice" (Kimble and Garmezy, 1963; p. 133), very few of them treat learning as an inferential decision within the context of their experiments. Such decisions would be based upon probability statements. Unfortunately, the techniques required for these probability statements are not widely known, and the purpose of this manuscript is to present one technique which may be easily applied in many experiments of discrimination learning involving discrete trials.

Competing Models

The typical discrimination learning experiment involves repeated observations of error and correct responses over a number of trials for each subject, and the most frequent criterion for the experimenter to decide whether the subject has learned has been a pre-determined number of correct trials in succession. Such a decision process is deterministic rather than probabilistic, and does not allow for individual differences to play a maximum role. The difficulties remain whether the random variable for subsequent parametric analysis is taken to be the number of correct responses, the number of error responses, or the total number of responses.

With a deterministic process, it is necessary to uniformly apply the same criterion to the terminal run for each subject in the investigation. For example, the subject will have to make the same number, or the same proportion, of correct responses in the terminal run, no matter how many trials have preceeded the terminal run. Consider the following sequences, where *E* is an error and *C* is a correct response to a simple discrimination task:

A. *C E E C C E E E E C C C E / C C C C C C C C C C C,*

B. *E C E E / C C C C C C C C C C C,*

---

[1] The work reported herein was partially supported by a grant from the Research Foundation of the State of New York, # 0403-03-025-70-0.

C. *E E E E E E E C E E C E E / C C C C C C C C C C C,*

D. *C C C E / C C C C C C C C C C C.*

If the probability of occurrance is .5 for *E* and for *C*, then the experimenter could conclude with a high degree of confidence that the four subjects have learned to respond to the correct stimulus. However, the experimenter cannot be equally confident that all subjects have learned the task. The experimenter should be concerned about the exact length of the terminal run for two reasons: the effects of overtraining upon subsequent learning tasks, and the validity of the data from individual subjects.

Grant (1946) proposed two probabilistic models for discrimination experiments. Both models were based upon the binomial distribution. The first model presented used a criterion of a run of at least length s in n trials. One difficulty with such a model is that the experiment could end on an error if a pre-planned number of trials were used. Furthermore, the run of length s could occur anywhere in the n trials, rather than as a terminal run. This result would present problems of interpretation if errors are made following the run of length s. Also, there is no control for overtraining. Should the experimenter terminate training as soon as the run of length s is achieved and then look up the probability corresponding to the n trials needed by the subject, the probability will be in error, because the probabilities reported by Grant (1946, 1947) are based upon all possible locations of s runs in n trials.

The second model presented by Grant (1946) bases decisions upon the number of runs of both corrects and errors in the total number of trials. Again the experiment could terminate with an incorrect response, but with a decision that the subject has learned. Also, controls for overtraining are not present in either model. In spite of the cited criticisms, the models do provide the experimenter with some opportunity to control the decision level.

In 1947, Grant extended his discussion of the runs criterion model to include the concept of overtraining. However, the use of the model in this case is limited to the situation where all subjects are given a pre-determined number of trials, whether or not they meet the criterion. Grant argued that a random sequence of trials will eventually be produced in which the criterion will be reached, whether or not learning takes place. Grant failed to recognize that such a condition is a Type I error, and can be present in any situation involving statistical inference. It is quite possible that in any training procedure, the experimenter can make a Type I error. The difference between the probabilistic and the deterministic processes lies in the control exercised over the Type I error, and if this control is not exercised, the advantages of the probabilistic model are nullified.

Bogartz (1965) discussed a generalization of the runs criterion model to blocks of trials, from Grant's (1946) original conceptualization, using a single block of trials. Bogartz' modification allows the experimenter to require the subject to reach the same criterion on each of several blocks of trials. While Bogartz' model allows the experimenter more latitude, it fails to provide relief from the criticisms expressed of Grant's (1946) model.

Bogartz (1965) also presented a second model which, in part, utilizes a Markov chain analysis. In this model, "a running analysis is made over trials

1 to M, 2 to $M + 1$, 3 to $M + 2$, etc., until M successive trials occur which contain K successes. The first such occurrence constitutes attainment of the criterion" (Bogartz, 1965; p. 13). The difficulty with this model is that a great deal of information may be ignored. If the criterion was reached during the third block of M trials, then less than half of the data would be utilized to make the decision to terminate training.

Rationale for Inferential Technique

Applying inferential techniques to decisions concerning learning is similar to applying inferential techniques when making predictions about future performance. That is, given a certain score and a prediction equation, it is possible to compute the probability that any criterion score can be exceeded (Magnusson, 1967; pp.155-158). The confidence level for a decision in a learning experiment is related to the probability that a terminal run of length x can occur by chance, given the total number of correct responses in the terminal run. If a criterion level of confidence is used for each subject, then training for that subject would be terminated following the correct response in which the criterion level is exceeded.

Overlearning

The literature on overlearning is extensive, and tends to show that overtraining is related to retention, resistance to extinction, and post-training transfer involving reversal and non-reversal shifts. The overlearning effect has been described as the effect upon retention when practice is continued beyond the point of immediate perfect reproducibility[2] (Deese and Hulse, 1967; p. 375).

Kreuger (1929) required human subjects to learn a list of nonsense syllables. After the students recited the list without error the first time, he subjected them to 0%, 50%, or 100% additional trials. Scores measured several times during the next four weeks were proportional to the amount of added practice.

Deese and Hulse (1967; p. 191) report that "resistance to extinction of a simple response like running in an alley increases and then decreases as a function of number of reinforcements."

Reid (1953) trained albino rats on a color discrimination task in a Y-maze. The group receiving overtraining trials learned a reversed discrimination task significantly faster than the group which did not receive any overtraining. However, other experiments with rats have yielded different results. Clayton performed one experiment in which he found no difference in overlearning reversal effect (1963a), and another in which he found a negative overlearning reversal effect (the control group learned significantly faster) (1963b). Birch, Ison, and Sperling (1960), however, found that overlearning reversal effects will only occur when large rewards are used.

Deese and Hulse (1967; p. 375) have concluded, "Requiring all subjects to

[2]Emphasis added

practice to the same criterion . . . inevitably . . . means that subjects receive different amounts of practice." Furthermore, when several learning tasks are presented to the same subject, some of the tasks will be overpracticed compared with others (Deese and Hulse, 1967).

The studies cited above, along with many others, demonstrated that the effects of overlearning may not be generalized in a simple manner, and that the effects are produced often enough to warrant bringing it under experimental control. Part of the equivocation of results in the above experiments may lie with the lack of a consistent definition of mastery and of overtraining.

The need for a redefinition of overlearning is made clear by Bogartz' (1965) discussion of the effect of overlearning upon the variance of the terminal performance levels. He indicates that this variance is related to the method of determining when to terminate training, and to homogeneity of the group of subjects. When overlearning is based upon the total number of practice trials, the considerations raised by Bogartz are very important.

Suppose training is terminated for a single subject following a sequence of eight correct responses. The experimenter has made the decision that the subject has learned at a pre-determined α level. But when did the subject actually learn? Unless the subject is being deliberately perverse, learning must have occurred at some point during the terminal sequence. If the assumption is made that learning occurred after the first of those correct responses, but before the second, then there has been $x - 1$ (= 7) practice trials following learning. Overtraining has taken place to the extent of seven hundred percent before the decision to terminate training is made. Another subject may require a terminal sequence of 12 trials, and would experience eleven hundred percent overtraining before the decision to terminate training is reached.

The Negative Binomial Decision Model

Within this manuscript, learning will be assumed to occur between the first and second correct response in the terminal sequence of correct responses. The decision to terminate training will be made when the subject has performed a sequence of correct responses of length x, such that x has $1 - \alpha$ probability of occurrence by chance alone. The experimenter is free to select α (e.g. .05, .01, .001, etc.).

The negative binomial decision model is to be applied to individual subjects in any experimental setting involving discrete trials with binary options. It is assumed that each option is equally likely to occur ($p = q = \frac{1}{2}$) with subjects who have not reached mastery.

Assume that there are E errors and C corrects in a particular sequence of responses. For analytical purposes, further assume that all error responses are identical, and that all correct responses are also identical to one another. The number of distinguishable orderings is given by $(E + C)! \div E!C!$ (Feller, 1950; p. 35), and the probability $[p(x)]$ of any one of them occurring at random is the inverse of the ratio above. The negative binomial decision model is simply a sampling model without replacement: k items from C corrects, 1 item from E errors, and $x + 1$ items from $C + E$ total trials. If the number of trials contains E errors and C correct responses including a terminal run with x correct responses which are immediately preceeded by an error, then the

probability of that configuration is given by (1):

$$(1) \qquad p(x \mid E, C) = \frac{E\,(C)!\,(E + C - x - 1)!}{(E + C)!\,(C - x)!}$$

It should be noted that no restrictions are placed upon the arrangement of errors preceeding the last error. The probability of arrangements $[p(x)]$ containing the same number of correct and error responses terminating in a sequence of x correct responses may be found by the algorithm below, when keeping in mind that when x is incremented, C is also incremented:

$$(2) \qquad p(0 \mid E, C) = \frac{E\,(E + C - 1)!}{(E + C)!}$$

$$(3) \qquad p(1 \mid E, C + 1) = \frac{E\,(C + 1)!\,(E + C - 1)!}{(E + C + 1)!\,C!}$$

$$(4) \qquad p(2 \mid E, C + 2) = \frac{E\,(C + 2)!\,(E + C - 1)!}{(E + C + 2)!\,C!}$$

$$(5) \qquad p(x \mid E, C + x) = \frac{E\,(C + x)!\,(E + C - 1)!}{(E + C + x)!\,C!}$$

In general,

$$(6) \qquad p(x \mid E, C + x) = \left[p(x - 1 \mid E, C + x - 1)\right] \cdot \left[\frac{(C + x - 1)}{(E + C + x - 1)}\right]$$

The following example illustrates the procedure. With correct responses indicated by "1" and error responses by "0", the sequence 10110001111011011111111 is possible. With $x = 7$, $C = 16$, $E = 6$, and $\alpha = .01$, then

$$(7) \qquad p(7 \mid 6, 16) = \frac{6\,(16!)\,(14!)}{(22!)\,(9!)} = .0268.$$

Since the test is failed, another trial must be observed. If it results in a correct response, then

$$(8) \qquad p(8 \mid 6, 17) = \frac{6\,(17!)\,(14!)}{(23!)\,(9!)} = .0198$$

and the same decision is made. If correct responses are continued, 11 successive ones are needed before the .01 level is reached.

The probabilities of the sequences A, B, C, and D (see pp. 1 and 2) with a run of ten correct responses are .0096, .0082, .0000, and .0714 to the nearest ten-thousandth respectively. Had the experimenter applied the negative binomial to the sequences, and adopted a decision level of $\alpha = .01$, the

lengths of the four terminal sequences would have been 9, 10, 4, and 99 respectively.

When an error is encountered, x is reset to zero and the probability does not need to be computed. Furthermore, the probability value changes with the length of the sequence even if the same relative proportion of corrects and errors is maintained. This is a reasonable result with a randomization test, since a run of specified length is less likely with a long sequence if the null hypothesis is true.

Table 1 (see page 7) reports the number of correct responses in the terminal sequence to reach an alpha level of .01 for several values of E and C. It should be noted that the terminal runs given will not be precisely .01 due to the fact that discrete distributions seldom yield exactly .01 values. The first length x of the terminal run producing a value less than .01 has been tabled. More extensive values (.05, .01, .001, .0001, with both E and C ranging from 0 to 100) are reported in Appendices A, B, C, and D, respectively.

Blank spaces within Table 1 indicate that the probability value of .01 either could not be reached with the existing sequence of responses, or that a decision would have been reached with a shorter sequence.

As can be seen from equation (1), the model requires the subject to make an error before the model can be applied. However, there are occasions when the subject makes only correct responses, and an alternative decision model is needed. A reasonable alternative is the binomial model with parameter $p = \frac{1}{2}$. With $\alpha = .01$, a run of seven correct responses would be required to terminate training.

The utility of the model becomes readily apparent when E is moderate to large. Relatively few total trials will be required to make a decision. With few errors, x will approximate C and the number of trials may become excessive (e.g. if $E = 1$, then 100 trials are required). If the dependent variable for subsequent analysis is the number of errors, the raw data may still be composed of small numbers. One apparent parameter of the model is that if α and C are held constant, and E increased, then x will decrease. For many experimental situations, the number of total trials needed to reach a decision will be fewer than that required by deterministic processes.

Another apparent paradox of the model is that when the number of errors are very low and held constant and the number of correct responses increased, the length of the terminal run for a given α will initially increase, and then decrease. For example, when $E = 2$ and $\alpha = .05$ (see Appendix A, p.12), x increases to 10 ($C \leq 15$), remains constant to $C = 22$, and then decreases to 8 ($C \geq 27$). Thus, a relatively short terminal run of correct responses, following a longer intermediate run of correct responses, will terminate training. The extreme of the above example would happen when the subject initially produced an error response, followed by 18 correct responses (19 would terminate training), another error response, and a terminal run of nine correct responses.

When few errors are encountered among the total number of trials, it is not experimentally possible for all combinations of error and correct responses to occur without reaching a decision to terminate training prior to that condition. For example, when $\alpha = .05$ and $E = 3$, it is not possible to achieve 35

TABLE 1

THE NUMBER OF TERMINALLY CORRECT RESPONSES
NEEDED FOR ALPHA EQUAL .0500

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0					5															
1																			19	20
2					5	6	7	7	8	8	9	9	9	9	10	10	10	10	10	10
3			3	4	5	5	5	6	6	7	7	7	7	8	8	8	8	8	9	9
4			3	4	4	4	5	5	5	6	6	6	7	7	7	7	7	7	8	8
5		2	3	3	4	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7
6		2	3	3	3	4	4	4	5	5	5	5	5	6	6	6	6	6	6	7
7		2	3	3	3	3	4	4	4	4	5	5	5	5	5	6	6	6	6	6
8		2	2	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	6	6
9		2	2	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5
10		2	2	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5
11		2	2	2	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5
12		2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5
13		2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5
14		2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
15		2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
16		2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
17		2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4
18		2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4
19	1	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4
20	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4
21	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4
22	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4

correct responses. The number of correct responses under any configuration would reach a maximum of 34 correct responses (see Appendix A, p. 16).

Applying the Model

The model may be used in two ways. If the experimenter has access to an apparatus which is directly linked to an interactive computer terminal, then Phase 2 of the computer program in Appendix E (see pp. 95 - 100) can be used to directly evaluate the response sequence of the subject, and to turn off the apparatus automatically if the criterion has been reached.

The second way the model can be applied is through table referencing. If the experimental apparatus has automatic recording counters for each type of response and for the terminal run of correct responses, and if the apparatus has a built-in intertrial interval of 15 seconds or more, then the experimenter will have sufficient time to examine the table, and manually terminate the training. If the experimenter requires decision levels other than .05, .01, .001, and .0001, the appropriate tables will have to be generated using the DECMOD program listed in Appendix E (see pp. 95 - 100).

The DECMOD Program

The DECMOD program (see Appendix E, pp. 95 - 100) has been divided into three phases: input, analysis, and output, and is written in FORTRAN IV. It has been designed for a UNIVAC 1110-A computer system and requires 26,000 units of core storage, although the large amount of storage can be substantially reduced if the matrices are reduced in size. The program will operate with any values of E and C, by changing the storage locations of cells which would normally be out of range of the dimension statement. If the dimensions of the matrices were cut in half, the same tables would require four separate passes through the computer.

The input phase reads the number of jobs, the decision levels, the starting point, and the finishing points for both rows and columns. Rows indicate the number of error responses, and columns indicate the number of correct responses. The input phase also reallocates and initializes storage areas.

In the analysis phase of DECMOD, the first section applies the negative binomial model to conditions where errors exist in the sequence of trials. Each terminal sequence is evaluated initially at length one, and if the probability of occurrence is less than or equal to alpha, the length is stored in NRUN. If the probability of occurrence is greater than alpha, the length is incremented and the new probability is computed by taking the product of the old probability and the ratio of the number of correct responses to the new total number of trials. The resulting sequence length is then stored in NRUN. The binomial model analysis for the case of no errors is located at the end of the analysis phase.

The long output phase of the model only organizes the output to look nice, and to conform to standard formats for publishing tables. It should be pointed out that the output will produce zeroes instead of blanks in the matrices of terminal runs. Also, the matrices of terminal runs will produce values for situations that cannot arise experimentally. These values have been blanked out in Appendices A, B, C, and D.

Conclusions

The negative binomial probability distribution provides the basis for a convenient model in which it is possible to control the confidence level when making decisions about learning by individual subjects. The model makes it possible to collect data of equal validity from all subjects. The model also makes it possible to experimentally control for overtraining effects. An indirect benefit of the model is that the total number of trials required for many subjects will be substantially reduced, unless a very stringent criterion is used.

REFERENCES

Birch, D., Ison, J. R., & Sperling, S. E. Reversal learning under single stimulus presentation. Journal of Experimental Psychology, 1960, 60, 36-40.

Bogartz, R. S. The criterion method: some analyses and remarks. Psychological Bulletin, 1965, 64, 1-14.

Clayton, K. N. Overlearning and reversal of a spatial discrimination by rats. Perceptual and Motor Skills, 1963a, 16, 335-336.

Clayton, K. N. Reversal performance by rats following overtraining with and without irrelevant stimuli. Journal of Experimental Psychology, 1963b, 66, 255-259.

Deese, J., & Hulse, S. H. The Psychology of Learning. New York: McGraw Hill, 1967.

Feller, W. An Introduction to Probability Theory and Its Applications. (2nd. edition) New York: John Wiley and Sons, 1964.

Grant, D. A. Additional tables of the probability of "runs" of correct responses in learning and problem solving. Psychological Bulletin, 1947, 44, 276-279.

Kimble, G. A., & Garmezy, N. Principles of General Psychology (2nd. ed.) New York: The Ronald Press, 1963.

Kreuger, W. C. F. The effect of overlearning on retention. Journal of Experimental Psychology, 1929, 12, 71-78.

Magnusson, D. Test Theory. Reading, MA.: Addison Wesley, 1967.

Reid. L. S. The development of non-continuity behavior through continuity learning. Journal of Experimental Psychology, 1953, 46, 107-112.

APPENDIX A

THE NUMBER OF TERMINALLY CORRECT RESPONSES
NEEDED FOR ALPHA EQUAL .0500

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0					5															
1																			19	20
2					5	6	7	7	8	8	9	9	9	9	10	10	10	10	10	10
3			3	4	5	5	5	6	6	7	7	7	7	8	8	8	8	8	9	9
4			3	4	4	4	5	5	5	6	6	6	7	7	7	7	7	7	8	8
5		2	3	3	4	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7
6		2	3	3	3	4	4	4	5	5	5	5	5	6	6	6	6	6	6	7
7		2	3	3	3	3	4	4	4	4	5	5	5	5	5	6	6	6	6	6
8		2	2	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	6	6
9		2	2	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5
10		2	2	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5
11		2	2	2	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5
12		2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5
13		2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5
14		2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
15		2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
16		2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
17		2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4
18		2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4
19	1	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4
20	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4
21	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4
22	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
23	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4
24	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4
25	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
26	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
27	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
28	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
29	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
30	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
31	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
32	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
33	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
34	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
35	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
36	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
37	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3
38	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3
39	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3
40	1	1	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
41	1	1	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
42	1	1	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
43	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3
44	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3
45	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3
46	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3
47	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3
48	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3
49	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
50	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3
51	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3
52	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3
53	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3
54	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
55	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
56	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
57	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
58	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
59	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
60	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
61	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
62	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
63	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
64	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
65	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
66	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
67	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
68	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
69	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
70	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
71	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
72	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
73	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
74	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
75	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
76	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
77	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
78	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
79	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
80	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
81	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
82	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
83	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
84	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
85	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
86	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
87	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
88	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
89	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
90	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
91	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
92	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
93	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
94	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
95	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
96	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
97	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
98	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
99	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
00	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
0																				
1	21	22	23																	
2	10	10	9	9	9	9	8													
3	9	9	9	9	9	9	9	9	9	9	9	8	8	8						
4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
5	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8
7	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8
8	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
9	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
10	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
11	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7
12	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6
13	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
14	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6
15	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
16	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6
17	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6
18	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5
19	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5
20	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
21			4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5
22	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
23	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
24	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5
25	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5
26	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5
27	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
28	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
29	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
30	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
31	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
32	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
33	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4
34	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
35	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
36	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4
37	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
38	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
39	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
40	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
41	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
42	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4
43	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
44	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4
45	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4
46	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4
47	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4
48	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
49	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
51	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
52	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
53	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
54	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
55	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
56	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
57	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
58	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
59	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
60	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
61	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
62	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
63	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
64	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
65	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
66	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
67	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
68	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
69	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
70	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
71	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
72	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
73	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
74	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
75	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
76	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
77	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
78	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
79	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
80	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
81	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
82	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
83	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
84	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
85	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
86	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
87	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
88	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
89	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
90	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
91	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
92	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
93	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
94	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3
95	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3
96	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3
97	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
98	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
99	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
100	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
0																				
1																				
2																				
3																				
4	8																			
5	8	8	8	8	8	8	8	8												
6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8					
7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8
10	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8
11	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
12	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
13	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
14	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7
15	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
16	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
17	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7
18	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
19	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
20	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
21	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6
22	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
23	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
24	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
25	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6
26	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6
27	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
28	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
29	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
30	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
31	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
32	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5
33	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5
34	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
35	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5
36	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
37	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
38	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5
39	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5
40	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5
41	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
42	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
43	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
44	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
45	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
46	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
47	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
48	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
49	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
50	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
51	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
52	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
53	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
54	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
55	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
56	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
57	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
58	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4
59	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
60	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4
61	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
62	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
63	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
64	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
65	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
66	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4
67	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4
68	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
69	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4
70	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4
71	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4
72	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
73	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
74	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
75	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
76	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
77	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
78	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
79	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
80	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
81	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
82	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
83	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
84	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
85	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
86	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
87	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
88	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
89	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
90	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
91	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
92	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
93	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
94	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
95	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
96	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
97	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
98	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
99	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
100	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
0																				
1																				
2																				
3																				
4																				
5																				
6																				
7	8	8																		
8	8	8	8	8	8	8	8	8	8											
9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8				
10	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
11	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
12	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
13	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8
14	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
15	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
16	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
17	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
18	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
19	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
20	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7
21	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
22	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
23	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6
24	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	5	6	6	6	6
25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6
26	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6
27	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6
28	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6
29	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
30	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6
31	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6
32	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
33	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6
34	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6
35	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
36	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
37	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
38	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
39	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
40	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
41	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
42	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
43	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
44	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
45	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
46	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5
47	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
48	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
49	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
50	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
51	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
52	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5
53	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5
54	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5
55	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
56	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
57	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
58	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
59	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
60	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
61	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
62	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
63	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
64	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
65	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
66	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
67	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
68	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
69	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
70	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
71	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
72	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
73	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
74	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
75	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
76	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
77	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
78	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
79	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
80	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
81	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
82	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4
83	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
84	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
85	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4
86	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
87	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
88	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
89	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
90	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
91	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4
92	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
93	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4
94	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4
95	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4
96	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4
97	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
98	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
99	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
100	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
0																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10	8	8	8																	
11	8	8	8	8	8	8	8	8	8	8										
12	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
13	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
14	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
15	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8
16	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8
17	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
18	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
19	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
20	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
21	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
22	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
23	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
24	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
25	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
26	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
27	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
28	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7
29	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
30	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
31	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
32	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
33	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
34	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
35	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
36	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
37	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
38	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6
39	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
40	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6
41	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
42	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6
43	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6
44	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
45	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
46	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
47	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
48	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
49	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
6	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
7	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
8	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
9	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
0	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
2	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5
4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5
6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5
7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5
8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5
9	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

TABLE FOR ALPHA EQUAL .0500 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
9	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
9	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
9	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
0	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

APPENDIX B

THE NUMBER OF TERMINALLY CORRECT RESPONSES
NEEDED FOR ALPHA EQUAL .0100

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0							7													
1																				
2													13	14	15	16	17	18	18	19
3							7	8	9	10	10	11	12	12	13	14	14	15	15	16
4					5	6	7	7	8	8	9	10	10	11	11	12	12	13	13	14
5				4	5	6	6	7	7	8	8	9	9	10	10	11	11	11	12	12
6				4	5	5	6	6	7	7	8	8	8	9	9	10	10	10	11	11
7			3	4	4	5	5	6	6	7	7	7	8	8	9	9	9	10	10	10
8			3	4	4	5	5	5	6	6	7	7	7	8	8	8	9	9	9	10
9			3	4	4	4	5	5	6	6	6	7	7	7	7	8	8	8	9	9
10			3	3	4	4	5	5	5	6	6	6	6	7	7	7	8	8	8	8
11			3	3	4	4	4	5	5	5	6	6	6	6	7	7	7	8	8	8
12			3	3	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8
13		2	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7
14		2	3	3	3	4	4	4	5	5	5	5	6	6	6	6	6	7	7	7
15		2	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	6	7	7
16		2	3	3	3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	7
17		2	3	3	3	3	4	4	4	4	5	5	5	5	5	6	6	6	6	6
18		2	3	3	3	3	4	4	4	4	5	5	5	5	5	5	6	6	6	6
19		2	3	3	3	3	4	4	4	4	4	5	5	5	5	5	6	6	6	6
20		2	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	6	6	6
21		2	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	6	6
22		2	2	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	6

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
23		2	2	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5
24		2	2	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5
25		2	2	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5
26		2	2	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5
27		2	2	3	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5
28		2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5
29		2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5
30		2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5
31		2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5
32		2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5
33		2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
34		2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5
35		2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
36		2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
37		2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
38		2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
39		2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
40		2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
41		2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
42		2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
43		2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4
44		2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4
45		2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4
46		2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4
47		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
48		2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4
49		2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
50		2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4
51		2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4
52		2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4
53		2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4
54		2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4
55		2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4
56		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4
57		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4
58		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4
59		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4
60		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4
61		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4
62		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4
63		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
64		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
65		2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
66		2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
67		2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
68		2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
69		2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
70		2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
71		2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
72		2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
73		2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
74		2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
75		2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
76		2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
77		2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
78		2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
79		2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
80		2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
81		2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
82		2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
83		2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
84		2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
85		2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
86		2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
87		2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
88		2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
89		2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
90		2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
91		2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
92		2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
93		2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
94		2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
95		2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
96		2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
97		2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
98		2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
99	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
100	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
0																				
1																				
2	20	21	21	22	23	24	24	25	26	27	27	28	29	29	30	30	31	32	32	33
3	17	17	18	18	19	19	20	21	21	22	22	23	23	24	24	24	25	25	26	26
4	14	15	15	16	16	17	17	18	18	18	19	19	20	20	20	21	21	22	22	22
5	13	13	14	14	14	15	15	16	16	16	17	17	17	18	18	18	19	19	19	20
6	12	12	12	13	13	13	14	14	14	15	15	15	16	16	16	17	17	17	17	18
7	11	11	11	12	12	12	13	13	13	13	14	14	14	15	15	15	15	16	16	16
8	10	10	10	11	11	11	12	12	12	12	13	13	13	14	14	14	14	15	15	15
9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14
10	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13
11	8	9	9	9	9	9	10	10	10	10	11	11	11	11	11	12	12	12	12	12
12	8	8	8	9	9	9	9	9	10	10	10	10	10	11	11	11	11	11	12	12
13	8	8	8	8	8	9	9	9	9	9	10	10	10	10	10	11	11	11	11	11
14	7	7	8	8	8	8	8	9	9	9	9	9	10	10	10	10	10	10	11	11
15	7	7	7	8	8	8	8	8	9	9	9	9	9	9	10	10	10	10	10	10
16	7	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9	10	10	10	10
17	7	7	7	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9	10	10
18	6	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9	9	9
19	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	9	9	9	9	9
20	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9
21	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9
22	6	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
23	6	6	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8
24	5	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8
25	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8
26	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8
27	5	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
28	5	5	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
29	5	5	5	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
30	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
31	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7
32	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7
33	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7
34	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7
35	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
36	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6
37	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6
38	4	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
39	4	4	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
40	4	4	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
41	4	4	4	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
42	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6
43	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6
44	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6
45	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6
46	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6
47	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6
48	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5
49	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
50	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
51	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
52	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
53	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
54	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5
55	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5
56	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5
57	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
58	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
59	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
60	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
61	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5
62	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5
63	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5
64	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5
65	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5
66	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5
67	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5
68	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5
69	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5
70	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
71	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
72	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
73	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
74	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
75	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
76	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
77	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
78	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
79	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
80	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
81	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
82	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
83	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
84	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
85	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
86	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4
87	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4
88	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4
89	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
90	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
91	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
92	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4
93	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4
94	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4
95	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
96	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
97	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
98	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
99	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
00	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
0																				
1																				
2	33	34	35	35	36	36	37	37	38	38	39	39	40	40	41	41	41	42	42	43
3	27	27	28	28	28	29	29	30	30	30	31	31	31	32	32	32	33	33	33	34
4	23	23	23	24	24	24	25	25	25	26	26	26	27	27	27	28	28	28	29	29
5	20	20	21	21	21	22	22	22	22	23	23	23	24	24	24	24	25	25	25	25
6	18	18	19	19	19	19	20	20	20	20	21	21	21	22	22	22	22	22	23	23
7	16	17	17	17	18	18	19	18	19	19	19	19	19	20	20	20	20	21	21	21
8	15	16	16	16	16	16	17	17	17	17	18	18	18	18	18	19	19	19	19	19
9	14	14	15	15	15	15	16	16	16	16	16	17	17	17	17	17	18	18	18	18
10	13	14	14	14	14	14	15	15	15	15	15	16	16	16	16	16	17	17	17	17
11	13	13	13	13	13	14	14	14	14	14	15	15	15	15	15	15	16	16	16	16
12	12	12	12	13	13	13	13	13	13	14	14	14	14	14	15	15	15	15	15	15
13	11	12	12	12	12	12	13	13	13	13	13	13	14	14	14	14	14	14	14	15
14	11	11	11	12	12	12	12	12	12	12	13	13	13	13	13	13	14	14	14	14
15	11	11	11	11	11	11	12	12	12	12	12	12	12	13	13	13	13	13	13	13
16	10	10	10	11	11	11	11	11	11	12	12	12	12	12	12	12	13	13	13	13
17	10	10	10	10	10	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12
18	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	12	12	12	12	12
19	9	9	9	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	12	12
20	9	9	9	9	9	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11
21	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	11	11	11	11	11
22	8	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	11	11

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
23	8	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10
24	8	8	8	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10
25	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10
26	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	10	10	10
27	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9
28	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9
29	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9
30	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9
31	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9
32	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9
33	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8
34	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8
35	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8
36	6	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8
37	6	6	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8
38	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8
39	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8
40	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	8
41	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
42	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7
43	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7
44	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
45	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
46	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
47	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
48	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
49	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
50	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7
51	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7
52	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7
53	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
54	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
55	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
56	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
57	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6
58	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6
59	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
60	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6
61	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6
62	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
63	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
64	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
65	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6
66	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6
67	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6
68	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6
69	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6
70	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6
71	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6
72	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
73	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
74	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
75	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
76	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
77	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
78	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
79	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
80	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
81	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
82	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
83	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5
84	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5
85	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5
86	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5
87	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
88	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
89	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
90	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
91	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5
92	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5
93	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
94	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
95	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5
96	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5
97	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5
98	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5
99	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5
100	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
0																				
1																				
2	43	43	44	44	44	45	45	45	46	46	46	46	47	47	47	47	48	48	48	48
3	34	34	35	35	35	36	36	36	36	37	37	37	37	38	38	38	38	39	39	39
4	29	29	30	30	30	30	31	31	31	31	32	32	32	32	33	33	33	33	34	34
5	26	26	26	26	27	27	27	27	28	28	28	28	29	29	29	29	29	30	30	30
6	23	23	24	24	24	24	25	25	25	25	25	26	26	26	26	26	27	27	27	27
7	21	21	22	22	22	22	23	23	23	23	23	24	24	24	24	24	24	25	25	25
8	20	20	20	20	20	21	21	21	21	21	22	22	22	22	22	23	23	23	23	23
9	18	19	19	19	19	19	19	20	20	20	20	20	21	21	21	21	21	21	22	22
10	17	17	18	18	18	18	18	18	19	19	19	19	19	19	20	20	20	20	20	20
11	16	17	17	17	17	17	17	17	18	18	18	18	18	18	19	19	19	19	19	19
12	16	16	16	16	16	16	16	17	17	17	17	17	17	18	18	18	18	18	18	18
13	15	15	15	15	15	16	16	16	16	16	16	16	17	17	17	17	17	17	17	18
14	14	14	14	15	15	15	15	15	15	15	16	16	16	16	16	16	16	17	17	17
15	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	16	16	16	16	16
16	13	13	13	13	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	16
17	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	15	15	15	15
18	12	12	12	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14
19	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	14	14	14	14	14
20	11	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	14
21	11	11	11	11	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13
22	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	13	13	13	13

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
23	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12
24	10	10	10	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12
25	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12
26	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	12	12
27	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11
28	9	9	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11
29	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11
30	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	11	11
31	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10
32	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10
33	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10
34	8	8	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10
35	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10
36	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10
37	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9
38	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9
39	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9
40	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9
41	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9
42	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9
43	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9
44	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
45	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
46	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8
47	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8
48	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8
49	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
60	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8
61	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8
62	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8
63	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8
64	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8
65	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
66	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
67	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
68	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
69	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
70	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
71	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7
72	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7
73	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
74	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
75	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
76	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
77	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
78	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
79	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
80	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
81	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6
82	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6
83	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6
84	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
85	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6
86	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6
87	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
88	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
89	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
90	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
91	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6
92	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6
93	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6
94	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6
95	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6
96	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6
97	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
98	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
99	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
100	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
0																			99	100
1																				
2	48	49	49	49	49	49	49	49	50	50	50	50	50	50	50	50	50	50	50	50
3	39	40	40	40	40	40	41	41	41	41	41	41	42	42	42	42	42	42	42	43
4	34	34	34	35	35	35	35	35	36	36	36	36	36	36	37	37	37	37	37	37
5	30	30	31	31	31	31	31	32	32	32	32	32	32	33	33	33	33	33	33	34
6	27	28	28	28	28	28	29	29	29	29	29	29	30	30	30	30	30	30	31	31
7	25	25	26	26	26	26	26	26	27	27	27	27	27	27	28	28	28	28	28	28
8	23	24	24	24	24	24	24	25	25	25	25	25	25	25	26	26	26	26	26	26
9	22	22	22	22	23	23	23	23	23	23	23	24	24	24	24	24	24	24	25	25
10	21	21	21	21	21	21	21	22	22	22	22	22	22	22	23	23	23	23	23	23
11	19	20	20	20	20	20	20	20	21	21	21	21	21	21	21	22	22	22	22	22
12	19	19	19	19	19	19	19	19	20	20	20	20	20	20	20	21	21	21	21	21
13	18	18	18	18	18	18	18	19	19	19	19	19	19	19	19	20	20	20	20	20
14	17	17	17	17	17	18	18	18	18	18	18	18	18	19	19	19	19	19	19	19
15	16	16	16	17	17	17	17	17	17	17	17	18	18	18	18	18	18	18	18	18
16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	18	18	18
17	15	15	15	15	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17
18	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16	17	17
19	14	14	14	14	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16
20	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	15	15	15
21	13	13	13	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15
22	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	14	14	15	15	15

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
23	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	14
24	12	12	12	13	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14
25	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	13	13	14	14
26	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13
27	11	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13
28	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13
29	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12
30	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12
31	11	11	11	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12
32	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	12	12	12	12
33	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	12
34	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11
35	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11
36	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11
37	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11
38	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11
39	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
40	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10
41	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10
42	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10
43	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10
44	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10
45	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10
46	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
47	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
48	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9
49	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
50	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9
51	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9
52	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9
53	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9
54	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9
55	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9
56	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
57	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
58	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
59	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
60	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8
61	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8
62	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8
63	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8
64	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8
65	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8
66	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8
67	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8
68	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8
69	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
70	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
71	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
72	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
73	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
74	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
75	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
76	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

TABLE FOR ALPHA EQUAL .0100 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
77	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
78	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7
79	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7
80	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
81	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
82	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
83	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
84	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
85	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7
86	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7
87	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7
88	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
89	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
90	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
91	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
92	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
93	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
94	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
95	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
96	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
97	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
98	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
99	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
100	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

APPENDIX C

THE NUMBER OF TERMINALLY CORRECT RESPONSES
NEEDED FOR ALPHA EQUAL .0010

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0										10										
1																				
2																				
3																	17	18	19	20
4										10	11	12	13	14	15	15	16	17	18	18
5								8	9	10	11	11	12	13	13	14	15	16	16	17
6							7	8	9	9	10	11	11	12	13	13	14	14	15	16
7						6	7	8	8	9	9	10	11	11	12	12	13	13	14	15
8					5	6	7	7	8	8	9	9	10	11	11	12	12	13	13	14
9					5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13
10				4	5	6	6	7	7	8	8	9	9	10	10	10	11	11	12	12
11				4	5	5	6	6	7	7	8	8	9	9	10	10	10	11	11	12
12				4	5	5	6	6	7	7	8	8	8	9	9	10	10	10	11	11
13				4	5	5	6	6	6	7	7	8	8	8	9	9	10	10	10	11
14				4	5	5	5	6	6	7	7	7	8	8	8	9	9	10	10	10
15				4	4	5	5	6	6	6	7	7	8	8	8	9	9	9	10	10
16				4	4	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10
17			3	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9
18			3	4	4	5	5	5	6	6	6	7	7	7	8	8	8	8	9	9
19			3	4	4	5	5	5	6	6	6	6	7	7	7	8	8	8	8	9
20			3	4	4	4	5	5	5	6	6	6	7	7	7	7	8	8	8	9
21			3	4	4	4	5	5	5	6	6	6	6	7	7	7	8	8	8	8
22			3	4	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8	8

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
23			3	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
24			3	4	4	4	4	5	5	5	6	6	6	6	7	7	7	7	8	8
25			3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8
26			3	3	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	7
27			3	3	4	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7
28			3	3	4	4	4	5	5	5	5	5	6	6	6	6	7	7	7	7
29			3	3	4	4	4	4	5	5	5	5	6	6	6	6	6	7	7	7
30			3	3	4	4	4	4	5	5	5	5	6	6	6	6	6	7	7	7
31			3	3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	7	7
32			3	3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	7	7
33			3	3	4	4	4	4	4	5	5	5	5	6	6	6	6	6	6	7
34			3	3	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6	7
35			3	3	3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6
36			3	3	3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6
37			3	3	3	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6
38			3	3	3	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6
39			3	3	3	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6
41				3	3	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6
41				3	3	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6
42			3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	6	6	6
43			3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	6	6	6
44		2	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	6	6	6
45		2	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	6	6
46		2	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	6	6
47		2	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	6	6
48		2	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	6
49		2	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	6

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
50		2	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	5
51		2	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	5
52		2	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5
53		2	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5
54		2	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5
55		2	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5
56		2	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5
57		2	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5
58		2	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5
59		2	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5
60		2	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	5
61		2	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5
62		2	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5
63		2	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	5
64		2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5
65		2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5
66		2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5
67		2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5
68		2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5
69		2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5
70		2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5
71		2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5
72		2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5
73		2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5
74		2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5
75		2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5
76		2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
77		2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
78		2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
79		2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
80		2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
81		2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
82		2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
83		2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
84		2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
85		2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
86		2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
87		2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
88		2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
89		2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
90		2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
91		2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
92		2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
93		2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
94		2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
95		2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
96		2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
97		2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
98		2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
99		2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
100		2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
0																				
1																				
2																				
3	21	22	23	24	24	25	26	27	28	29	30	30	31	32	33	34	35	35	36	37
4	19	20	21	21	22	23	24	24	25	26	27	27	28	29	30	30	31	32	32	33
5	18	18	19	20	20	21	22	22	23	24	24	25	25	26	27	27	28	29	29	30
6	16	17	17	18	19	19	20	20	21	22	22	23	23	24	24	25	26	26	27	27
7	15	16	16	17	17	18	18	19	19	20	20	21	21	22	23	23	24	24	25	25
8	14	15	15	16	16	17	17	18	18	19	19	20	20	20	21	21	22	22	23	23
9	13	14	14	15	15	16	16	17	17	17	18	18	19	19	20	20	20	21	21	22
10	13	13	13	14	14	15	15	16	16	16	17	17	18	18	18	19	19	20	20	20
11	12	12	13	13	14	14	14	15	15	16	16	16	17	17	17	18	18	19	19	19
12	11	12	12	13	13	13	14	14	14	15	15	16	16	16	17	17	17	18	18	18
13	11	11	12	12	12	13	13	13	14	14	14	15	15	16	16	16	16	17	17	17
14	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	15	16	16	16	17
15	10	11	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	15	16	16
16	10	10	10	11	11	11	12	12	12	13	13	13	13	14	14	14	15	15	15	15
17	10	10	10	10	11	11	11	12	12	12	12	13	13	13	14	14	14	14	15	15
18	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13	13	14	14	14	14
19	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14
20	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	13
21	9	9	9	9	10	10	10	10	11	11	11	11	11	12	12	12	12	13	13	13
22	8	9	9	9	9	10	10	10	10	10	11	11	11	11	12	12	12	12	13	13

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
23	8	8	9	9	9	9	10	10	10	10	10	11	11	11	11	12	12	12	12	12
24	8	8	8	9	9	9	9	10	10	10	10	10	11	11	11	11	11	12	12	12
25	8	8	8	8	9	9	9	9	10	10	10	10	10	11	11	11	11	11	12	12
26	8	8	8	8	9	9	9	9	9	10	10	10	10	10	11	11	11	11	11	12
27	8	8	8	8	8	9	9	9	9	9	10	10	10	10	10	11	11	11	11	11
28	7	8	8	8	8	8	9	9	9	9	9	10	10	10	10	10	10	11	11	11
29	7	7	8	8	8	8	8	9	9	9	9	9	10	10	10	10	10	10	11	11
30	7	7	8	8	8	8	8	8	9	9	9	9	9	10	10	10	10	10	10	11
31	7	7	7	8	8	8	8	8	9	9	9	9	9	9	10	10	10	10	10	10
32	7	7	7	7	8	8	8	8	8	9	9	9	9	9	9	10	10	10	10	10
33	7	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9	10	10	10	10
34	7	7	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9	10	10	10
35	7	7	7	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9	10	10
36	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9	9	9	10
37	6	7	7	7	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9	9
38	6	7	7	7	7	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9
39	6	6	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9	9
40	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9
41	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9
42	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9	9
43	6	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9
44	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9
45	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8
46	6	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8
47	6	6	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8
48	6	6	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8
49	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
50	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8
51	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8
52	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8
53	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	9
54	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8
55	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8
56	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
57	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
58	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
59	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
60	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
61	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
62	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
63	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
64	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
65	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
66	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7
67	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7
68	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7
69	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7
70	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7
71	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7
72	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7
73	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7
74	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6
75	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
76	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
77	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
78	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6
79	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6
80	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6
81	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6
82	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6
83	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
84	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
85	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
86	4	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
87	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
88	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
89	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
90	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
91	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
92	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6
93	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6
94	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6
95	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6
96	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6
97	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6
98	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6
99	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6
00	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	5

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
0																				
1																				
2				44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
3	38	39	39	40	41	42	43	44	44	45	46	47	48	48	49	50	51	52	52	53
4	34	35	35	36	37	37	38	39	39	40	41	41	42	43	43	44	45	46	46	47
5	30	31	32	32	33	34	34	35	35	36	37	37	38	38	39	40	40	41	41	42
6	28	28	29	29	30	30	31	32	32	33	33	34	34	35	35	36	36	37	37	38
7	26	26	27	27	28	28	28	29	29	30	30	31	31	32	32	33	33	34	34	35
8	24	24	25	25	26	26	26	27	27	28	28	29	29	29	30	30	31	31	32	32
9	22	23	23	23	24	24	25	25	25	26	26	27	27	27	28	29	29	29	29	30
10	21	21	22	22	22	23	23	24	24	24	25	25	25	26	26	27	27	27	28	28
11	20	20	20	21	21	21	22	22	23	23	23	24	24	24	25	25	25	26	26	26
12	19	19	19	20	20	20	21	21	21	22	22	22	23	23	23	24	24	24	25	25
13	18	18	18	19	19	19	20	20	20	21	21	21	22	22	22	23	23	23	23	24
14	17	17	18	18	18	19	19	19	19	20	20	20	21	21	21	21	22	22	22	23
15	16	17	17	17	17	18	18	18	19	19	19	19	20	20	20	21	21	21	21	22
16	16	16	16	17	17	17	17	18	18	18	18	19	19	19	19	20	20	20	21	21
17	15	15	16	16	16	16	17	17	17	17	18	18	18	19	19	19	19	20	20	20
18	15	15	15	15	16	16	16	16	17	17	17	17	18	18	18	18	19	19	19	19
19	14	14	15	15	15	15	16	16	16	16	17	17	17	17	17	18	18	18	18	19
20	14	14	14	14	15	15	15	15	16	16	16	16	16	17	17	17	17	18	18	18
21	13	14	14	14	14	14	15	15	15	15	16	16	16	16	16	17	17	17	17	17
22	13	13	13	14	14	14	14	14	15	15	15	15	16	16	16	16	16	17	17	17

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	13	13	13	13	13	14	14	14	14	14	15	15	15	15	15	16	16	16	16	16
24	12	12	13	13	13	13	14	14	14	14	14	14	15	15	15	15	15	16	16	16
25	12	12	12	13	13	13	13	13	14	14	14	14	14	14	15	15	15	15	15	15
26	12	12	12	12	12	13	13	13	13	13	14	14	14	14	14	14	14	15	15	15
27	11	12	12	12	12	12	13	13	13	13	13	13	14	14	14	14	14	14	14	15
28	11	11	12	12	12	12	12	12	13	13	13	13	13	14	14	14	14	14	14	14
29	11	11	11	12	12	12	12	12	12	13	13	13	13	13	13	14	14	14	14	14
30	11	11	11	11	11	12	12	12	12	12	12	13	13	13	13	13	13	13	13	14
31	11	11	11	11	11	11	12	12	12	12	12	12	13	13	13	13	13	13	13	13
32	10	11	11	11	11	11	11	12	12	12	12	12	12	12	13	13	13	13	13	13
33	10	10	11	11	11	11	11	11	11	12	12	12	12	12	12	13	13	13	13	13
34	10	10	10	10	11	11	11	11	11	11	12	12	12	12	12	12	12	13	13	13
35	10	10	10	10	10	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12
36	10	10	10	10	10	10	11	11	11	11	11	11	11	12	12	12	12	12	12	12
37	10	10	10	10	10	10	10	11	11	11	11	11	11	11	12	12	12	12	12	12
38	9	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	12	12	12	12
39	9	9	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	12	12	12
40	9	9	9	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11
41	9	9	9	9	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11
42	9	9	9	9	9	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11
43	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	11	11	11	11	11
44	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	11	11	11	11
45	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	11	11	11
46	8	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	11
47	8	8	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10
48	8	8	8	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10
49	8	8	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
50	6	8	8	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10
51	8	8	8	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10
52	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10
53	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	10	10	10	10
54	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	10	10	10
55	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	10	10
56	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	10
57	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9
58	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9
59	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9
60	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9
61	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9
62	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9
63	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9
64	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9
65	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9
66	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	9	9
67	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9
68	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9
69	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8
70	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8
71	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8
72	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8
73	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8
74	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8
75	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8
76	6	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
77	6	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8
78	6	6	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8
79	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8
80	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8
81	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8
82	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8
83	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8
84	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8
85	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8
86	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
87	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
88	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
89	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
90	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7
91	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7
92	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7
93	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7
94	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
95	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
96	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
97	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
98	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
99	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
100	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
0																				
1																				
2	61	61	62	63	64	65	66	67	68	69	70	71	72	73	74	74	75	76	77	78
3	54	55	55	56	57	58	59	59	60	61	62	62	63	64	65	65	66	67	68	68
4	48	48	49	50	50	51	51	52	53	53	54	55	55	56	57	57	58	59	59	60
5	42	43	44	44	45	45	46	46	47	48	48	49	49	50	50	51	52	52	53	53
6	38	39	39	40	40	41	41	42	43	43	44	44	45	45	46	46	46	47	47	48
7	35	36	36	37	37	37	38	38	39	39	40	40	41	41	42	42	42	43	43	44
8	32	33	33	34	34	35	35	35	36	36	37	37	38	38	38	39	39	40	40	40
9	30	31	31	31	32	32	32	33	33	34	34	35	35	35	36	36	36	37	37	38
10	28	29	29	29	30	30	31	31	31	32	32	32	33	33	33	34	34	34	35	35
11	27	27	27	28	28	29	29	29	29	30	30	30	31	31	31	32	32	32	33	33
12	25	26	26	26	27	27	27	28	28	28	28	29	29	29	30	30	30	31	31	31
13	24	24	25	25	25	26	26	26	26	27	27	27	28	28	28	28	29	29	29	30
14	23	23	24	24	24	24	25	25	25	25	26	26	26	27	27	27	27	28	28	28
15	22	22	22	23	23	23	24	24	24	24	25	25	25	25	26	26	26	26	27	27
16	21	21	22	22	22	22	23	23	23	23	24	24	24	24	25	25	25	25	26	26
17	20	21	21	21	21	21	22	22	22	22	23	23	23	23	24	24	24	24	25	25
18	20	20	20	20	20	21	21	21	21	22	22	22	22	23	23	23	23	23	24	24
19	19	19	19	20	20	20	20	20	21	21	21	21	22	22	22	22	22	23	23	23
20	18	18	19	19	19	19	20	20	20	20	20	21	21	21	21	21	22	22	22	22
21	18	18	18	19	19	19	19	19	19	20	20	20	20	20	21	21	21	21	21	22
22	17	17	18	18	18	18	18	19	19	19	19	19	20	20	20	20	20	21	21	21

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
23	17	17	17	17	17	18	18	18	18	18	19	19	19	19	19	20	20	20	20	20
24	16	16	17	17	17	17	17	18	18	18	18	18	18	19	19	19	19	19	20	20
25	16	16	16	16	17	17	17	17	17	17	18	18	18	18	18	19	19	19	19	19
26	15	16	16	16	16	16	16	17	17	17	17	17	18	18	18	18	18	18	19	19
27	15	15	15	16	16	16	16	16	16	17	17	17	17	17	17	18	18	18	18	18
28	15	15	15	15	15	16	16	16	16	16	16	17	17	17	17	17	17	18	18	18
29	14	15	15	15	15	15	15	16	16	16	16	16	16	16	17	17	17	17	17	17
30	14	14	14	15	15	15	15	15	15	16	16	16	16	16	16	16	17	17	17	17
31	14	14	14	14	14	15	15	15	15	15	15	15	16	16	16	16	16	16	17	17
32	14	14	14	14	14	14	14	15	15	15	15	15	15	15	16	16	16	16	16	16
33	13	13	14	14	14	14	14	14	14	15	15	15	15	15	15	15	16	16	16	16
34	13	13	13	13	14	14	14	14	14	14	14	15	15	15	15	15	15	15	16	16
35	13	13	13	13	13	13	14	14	14	14	14	14	14	15	15	15	15	15	15	15
36	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	15	15	15	15	15
37	12	12	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	15	15	15
38	12	12	12	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	15
39	12	12	12	12	12	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14
40	12	12	12	12	12	12	13	13	13	13	13	13	13	13	14	14	14	14	14	14
41	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	14	14	14	14
42	11	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	14	14
43	11	11	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	14
44	11	11	11	11	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13
45	11	11	11	11	11	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13
46	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	13	13	13	13
47	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	13	13	13
48	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	13
49	10	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
50	10	10	10	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12
51	10	10	10	10	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12
52	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12
53	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	12	12	12	12
54	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	12	12	12
55	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	12
56	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11
57	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11
58	9	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11
59	9	9	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11
60	9	9	9	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11
61	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11
62	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11
63	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	11	11
64	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	11
65	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10
66	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10
67	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10
68	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10
69	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10
70	8	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10
71	8	8	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10
72	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10
73	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10
74	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10
75	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10
76	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	10

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
77	6	6	9	8	6	8	6	9	9	9	9	9	9	9	9	9	9	9	9	9
78	6	8	8	8	8	6	8	8	9	9	9	9	9	9	9	9	9	9	9	9
79	6	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9
80	6	6	8	8	8	9	8	8	8	9	9	9	9	9	9	9	9	9	9	9
81	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9
82	8	8	8	8	8	8	8	8	9	8	8	9	9	9	9	9	9	9	9	9
83	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9
84	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9
85	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9
86	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9
87	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9
88	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9
89	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9
90	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9
91	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9
92	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9
93	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
94	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
95	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
96	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
97	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8
98	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8
99	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8
00	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
0																				
1																				
2	79	80	81	82	83	84	85	85	86	87	88	89	90	91	92	93	94	95	95	96
3	69	70	71	71	72	73	74	74	75	76	77	77	78	79	80	80	81	82	82	83
4	60	61	62	62	63	64	64	65	66	66	67	67	68	69	69	70	70	71	72	72
5	54	54	55	55	56	56	57	58	58	59	59	60	60	61	61	62	62	63	63	64
6	48	49	49	50	50	51	51	52	52	53	53	54	54	55	55	56	56	57	57	58
7	44	45	45	46	46	46	47	47	48	48	49	49	49	50	50	51	51	52	52	52
8	41	41	42	42	42	43	43	44	44	44	45	45	46	46	46	47	47	47	48	48
9	38	38	39	39	39	40	40	40	41	41	42	42	42	43	43	43	44	44	44	45
10	35	36	36	36	37	37	37	38	38	39	39	39	40	40	40	41	41	41	42	42
11	33	34	34	34	35	35	35	36	36	36	37	37	37	37	38	38	38	39	39	39
12	32	32	32	32	33	33	33	34	34	34	35	35	35	35	36	36	36	37	37	37
13	30	30	30	31	31	31	32	32	32	32	33	33	33	34	34	34	34	35	35	35
14	29	29	29	29	30	30	30	30	31	31	31	31	32	32	32	33	33	33	33	34
15	27	27	28	28	28	29	29	29	29	30	30	30	30	31	31	31	31	32	32	32
16	26	26	27	27	27	27	28	28	28	28	29	29	29	29	29	30	30	30	30	31
17	25	25	26	26	26	26	26	27	27	27	27	28	28	28	28	29	29	29	29	29
18	24	24	25	25	25	25	25	26	26	26	26	27	27	27	27	27	28	28	28	28
19	23	24	24	24	24	24	25	25	25	25	25	26	26	26	26	26	27	27	27	27
20	23	23	23	23	23	24	24	24	24	24	25	25	25	25	25	26	26	26	26	26
21	22	22	22	22	23	23	23	23	23	24	24	24	24	24	25	25	25	25	25	26
22	21	21	22	22	22	22	22	22	23	23	23	23	23	24	24	24	24	24	25	25

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
23	21	21	21	21	21	21	22	22	22	22	22	23	23	23	23	23	23	24	24	24
24	20	20	20	20	21	21	21	21	21	22	22	22	22	22	22	23	23	23	23	23
25	19	20	20	20	20	20	20	21	21	21	21	21	21	22	22	22	22	22	23	23
26	19	19	19	19	20	20	20	20	20	20	21	21	21	21	21	21	22	22	22	22
27	18	19	19	19	19	19	19	20	20	20	20	20	20	21	21	21	21	21	21	22
28	18	18	18	18	19	19	19	19	19	19	20	20	20	20	20	20	21	21	21	21
29	18	18	18	18	18	18	19	19	19	19	19	19	19	20	20	20	20	20	20	21
30	17	17	18	18	18	18	18	18	19	19	19	19	19	19	19	19	20	20	20	20
31	17	17	17	17	17	18	18	18	18	18	18	18	19	19	19	19	19	19	19	20
32	16	17	17	17	17	17	17	18	18	18	18	18	18	18	19	19	19	19	19	19
33	16	16	16	17	17	17	17	17	17	17	18	18	18	18	18	18	18	19	19	19
34	16	16	16	16	16	17	17	17	17	17	17	17	17	18	18	18	18	18	18	18
35	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	18	18	18	18	18
36	15	15	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	18	18
37	15	15	15	15	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17
38	15	15	15	15	15	15	16	16	16	16	16	16	16	16	17	17	17	17	17	17
39	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	17	17	17
40	14	14	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	17
41	14	14	14	14	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16
42	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	16	16	16	16	16
43	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	16	16	16
44	13	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	16
45	13	13	13	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15
46	13	13	13	13	13	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15
47	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	14	15	15	15	15
48	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	14	15	15
49	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	14

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
50	12	12	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14
51	12	12	12	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14
52	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14
53	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	13	14	14	14
54	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	13	14
55	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	13
56	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13
57	11	11	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13
58	11	11	11	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13
59	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13
60	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	13	13	13
61	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	13
62	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12
63	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12
64	11	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12
65	11	11	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12
66	10	11	11	11	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12
67	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12
68	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	12	12	12
69	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	12	12
70	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	12
71	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11
72	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11
73	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11
74	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11
75	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11
76	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11

TABLE FOR ALPHA EQUAL .0010 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
77	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11
78	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11
79	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11
80	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11
81	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11
82	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
83	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10
84	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10
85	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10
86	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10
87	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10
88	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10
89	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10
90	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10
91	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10
92	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10
93	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10
94	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10
95	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10
96	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10
97	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
98	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
99	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
100	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9

APPENDIX D

THE NUMBER OF TERMINALLY CORRECT RESPONSES
NEEDED FOR ALPHA EQUAL .0001

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0														14						
1																				
2																				
3																				
4																				20
5														14	15	16	17	18	19	19
6											11	12	13	14	15	15	16	17	18	18
7									9	10	11	12	12	13	14	15	15	16	17	17
8								8	9	10	11	11	12	13	13	14	15	15	16	17
9							7	8	9	9	10	11	11	12	13	13	14	15	15	16
10							7	8	9	9	10	10	11	12	12	13	13	14	14	15
11						6	7	8	8	9	9	10	11	11	12	12	13	13	14	14
12						6	7	7	8	9	9	10	10	11	11	12	12	13	13	14
13						6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
14					5	6	7	7	8	8	9	9	10	10	11	11	12	12	12	13
15					5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	12
16					5	6	6	7	7	8	8	9	9	10	10	10	11	11	12	12
17					5	6	6	7	7	8	8	8	9	9	10	10	11	11	11	12
18					5	6	6	7	7	7	8	8	9	9	9	10	10	11	11	11
19					5	6	6	6	7	7	8	8	8	9	9	10	10	10	11	11
20				4	5	5	6	6	7	7	8	8	8	9	9	9	10	10	11	11
21				4	5	5	6	6	7	7	7	8	8	8	9	9	10	10	10	11
22				4	5	5	6	6	7	7	7	8	8	8	9	9	9	10	10	10

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
23				4	5	5	6	6	6	7	7	7	8	8	9	9	9	9	10	10
24				4	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10
25				4	5	5	5	6	6	7	7	7	8	8	8	9	9	9	9	10
26				4	5	5	5	6	6	6	7	7	7	6	8	8	9	9	9	10
27				4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	9
28				4	5	5	5	6	6	6	7	7	7	8	8	8	8	9	9	9
29				4	5	5	5	6	6	6	7	7	7	7	8	8	8	9	9	9
30				4	4	5	5	6	6	6	6	7	7	7	8	8	8	8	9	9
31				4	4	5	5	5	6	6	6	7	7	7	7	8	8	8	9	9
32				4	4	5	5	5	6	6	6	7	7	7	7	8	8	8	8	9
33				4	4	5	5	5	6	6	6	6	7	7	7	8	8	8	8	9
34				4	4	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
35				4	4	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8
36				4	4	5	5	5	5	6	6	6	7	7	7	7	7	8	8	8
37				4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
38			3	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
39			3	4	4	4	5	5	5	6	6	6	6	7	7	7	7	7	8	8
40			3	4	4	4	5	5	5	6	6	6	6	6	7	7	7	7	8	8
41			3	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
42			3	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	7	8
43			3	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	7	8
44			3	4	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7	7
45			3	4	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7	7
46			3	4	4	4	5	5	5	5	5	6	6	6	6	7	7	7	7	7
47			3	4	4	4	5	5	5	5	5	6	6	6	6	6	7	7	7	7
48			3	4	4	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7
49			3	4	4	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
50			3	4	4	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7
51			3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	7	7	7
52			3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	7	7	7
53			3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	7	7	7
54			3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	7	7
55			3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	7	7
56			3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	7	7
57			3	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6	7	7
58			3	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	7
59			3	3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	7
60			3	3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	7
61			3	3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	6
62			3	3	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6	6
63			3	3	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6	6
64			3	3	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6	6
65			3	3	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6	6
66			3	3	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6
67			3	3	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6
68			3	3	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6
69			3	3	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6
70			3	3	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6
71			3	3	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6
72			3	3	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6	6
73			3	3	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6	6
74			3	3	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6	6
75			3	3	4	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6
76			3	3	4	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
77			3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6
78			3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6
79			3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6
80			3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6
81			3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6
82			3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	5	6	6
83			3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6
84			3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6
85			3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6
86			3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6
87			3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	5	6
88			3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	5	6
89			3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	5	6
90			3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	5	6
91			3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	5	6
92			3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
93			3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
94			3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
95			3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
96			3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
97			3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
98			3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
99			3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
100			3	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
0																				
1																				
2																				
3																		38	39	40
4	21	22	23	24	25	26	27	28	28	29	30	31	32	33	34	35	35	36	37	38
5	20	21	22	23	24	24	25	26	27	28	28	29	30	31	32	32	33	34	35	36
6	19	20	21	21	22	23	24	24	25	26	27	27	28	29	30	30	31	32	32	33
7	18	19	20	20	21	22	22	23	24	24	25	26	26	27	28	28	29	30	30	31
8	17	18	19	19	20	20	21	22	22	23	24	24	25	25	26	27	27	28	29	29
9	16	17	18	18	19	19	20	21	21	22	22	23	23	24	25	25	26	26	27	27
10	16	16	17	17	18	18	19	20	20	21	21	22	22	23	23	24	24	25	25	26
11	15	16	16	17	17	18	18	19	19	20	20	21	21	22	22	23	23	24	24	25
12	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	22	22	23	23	24
13	14	14	15	15	16	16	17	17	18	18	19	19	19	20	20	21	21	22	22	23
14	13	14	14	15	15	16	16	16	17	17	18	18	19	19	20	20	20	21	21	22
15	13	13	14	14	15	15	16	16	16	17	17	18	18	18	19	19	20	20	20	21
16	13	13	13	14	14	15	15	15	16	16	17	17	17	18	18	19	19	19	20	20
17	12	13	13	13	14	14	14	15	15	16	16	16	17	17	18	18	18	19	19	19
18	12	12	13	13	13	14	14	14	15	15	16	16	16	17	17	17	18	18	18	19
19	11	12	12	13	13	13	14	14	14	15	15	15	16	16	16	17	17	17	18	18
20	11	12	12	12	13	13	13	14	14	14	15	15	15	16	16	16	17	17	17	18
21	11	11	12	12	12	13	13	13	14	14	14	15	15	15	16	16	16	16	17	17
22	11	11	11	12	12	12	13	13	13	14	14	14	15	15	15	15	16	16	16	17

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES																				
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
23	10	11	11	11	12	12	12	13	13	13	14	14	14	14	15	15	15	16	16	16
24	10	11	11	11	11	12	12	12	13	13	13	14	14	14	14	15	15	15	16	16
25	10	10	11	11	11	12	12	12	12	13	13	13	14	14	14	14	15	15	15	15
26	10	10	10	11	11	11	12	12	12	12	13	13	13	13	14	14	14	15	15	15
27	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	15	15
28	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14
29	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14
30	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14
31	9	9	10	10	10	10	11	11	11	11	12	12	12	12	12	13	13	13	13	14
32	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	12	13	13	13	13
33	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	12	13	13	13
34	9	9	9	9	10	10	10	10	11	11	11	11	11	12	12	12	12	12	13	13
35	9	9	9	9	9	10	10	10	10	11	11	11	11	11	12	12	12	12	13	13
36	8	9	9	9	9	10	10	10	10	10	11	11	11	11	11	12	12	12	12	13
37	8	9	9	9	9	9	10	10	10	10	10	11	11	11	11	12	12	12	12	12
38	8	8	9	9	9	9	9	10	10	10	10	11	11	11	11	11	12	12	12	12
39	8	8	9	9	9	9	9	10	10	10	10	10	11	11	11	11	11	12	12	12
40	8	8	8	9	9	9	9	9	10	10	10	10	10	11	11	11	11	11	12	12
41	8	8	8	9	9	9	9	9	10	10	10	10	10	10	11	11	11	11	11	12
42	8	8	8	8	9	9	9	9	9	10	10	10	10	10	11	11	11	11	11	11
43	8	8	8	8	9	9	9	9	9	9	10	10	10	10	10	11	11	11	11	11
44	8	8	8	8	8	9	9	9	9	9	10	10	10	10	10	10	11	11	11	11
45	8	8	8	8	8	9	9	9	9	9	9	10	10	10	10	10	11	11	11	11
46	8	8	8	8	8	8	9	9	9	9	9	10	10	10	10	10	10	11	11	11
47	7	8	8	8	8	8	9	9	9	9	9	9	10	10	10	10	10	10	11	11
48	7	8	8	8	8	8	8	9	9	9	9	9	9	10	10	10	10	10	10	11
49	7	7	8	8	8	8	8	9	9	9	9	9	9	10	10	10	10	10	10	11

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
50	7	7	8	8	8	8	8	8	9	9	9	9	9	9	10	10	10	10	10	10
51	7	7	8	8	8	8	8	8	9	9	9	9	9	9	10	10	10	10	10	10
52	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9	10	10	10	10	10
53	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9	9	10	10	10	10
54	7	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9	10	10	10	10
55	7	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9	9	10	10	10
56	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9	9	9	10	10	10
57	7	7	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9	9	10	10
58	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9	9	9	9	10
59	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9	9	9	9	10
60	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9	9	9	9
61	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9	9	9	9
62	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9	9	9
63	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9	9	9
64	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9	9	9	9	9
65	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9	9
66	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9	9	9	9
67	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9
68	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9	9	9
69	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9	9	9
70	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9	9
71	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9	9
72	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9
73	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9
74	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8
75	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8
76	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES																				
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
77	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8
78	6	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8
79	6	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8
80	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8
81	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8
82	6	6	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8
83	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8
84	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8
85	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8
86	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8
87	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8
88	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8
89	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8
90	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8
91	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8
92	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8
93	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8
94	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8
95	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7
96	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
97	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
98	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
99	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
100	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
0																				
1																				
2																				
3	41	42	43	44	45	46	47	48	49	50	51	52	53	54	54	55	56	57	58	59
4	39	40	41	42	42	43	44	45	46	47	48	48	49	50	51	52	53	54	54	55
5	36	37	38	39	39	40	41	42	43	43	44	45	46	46	47	48	49	50	50	51
6	34	35	35	36	37	37	38	39	40	40	41	42	42	43	44	45	45	46	47	47
7	32	32	33	34	34	35	36	36	37	38	38	39	40	40	41	41	42	43	43	44
8	30	30	31	32	32	33	33	34	35	35	36	36	37	38	38	39	39	40	41	41
9	28	29	29	30	30	31	31	32	33	33	34	34	35	35	36	36	37	38	38	39
10	27	27	28	28	29	29	30	30	31	31	32	32	33	33	34	34	35	35	36	36
11	25	26	26	27	27	28	28	29	29	30	30	31	31	32	32	33	33	34	34	34
12	24	25	25	25	26	26	27	27	28	28	29	29	30	30	31	31	31	32	32	33
13	23	23	24	24	25	25	26	26	27	27	27	28	29	29	29	30	30	30	31	31
14	22	22	23	23	24	24	25	25	25	26	26	27	27	27	28	28	29	29	29	30
15	21	22	22	22	23	23	24	24	24	25	25	26	26	26	27	27	27	28	28	29
16	20	21	21	22	22	22	23	23	23	24	24	25	25	25	26	26	26	27	27	28
17	20	20	20	21	21	22	22	22	23	23	23	24	24	24	25	25	25	26	26	27
18	19	19	20	20	20	21	21	22	22	22	23	23	23	24	24	24	25	25	25	26
19	18	19	19	19	20	20	20	21	21	21	22	22	22	23	23	23	24	24	24	25
20	18	18	19	19	19	20	20	20	20	21	21	21	22	22	22	23	23	23	24	24
21	17	18	18	18	19	19	19	20	20	20	21	21	21	21	22	22	22	23	23	23
22	17	17	18	18	18	18	19	19	19	20	20	20	21	21	21	21	22	22	22	23

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
23	17	17	17	17	18	18	18	19	19	19	19	20	20	20	21	21	21	21	22	22
24	16	16	17	17	17	[illegible]	[illegible]	18	18	19	19	19	19	20	20	20	21	21	21	21
25	16	16	16	17	17	[illegible]	17	18	18	18	19	19	19	19	19	20	20	20	21	21
26	15	16	16	16	16	17	17	17	17	18	18	18	19	19	19	19	20	20	20	20
27	15	15	16	16	16	16	17	17	17	17	18	18	18	18	19	19	19	19	20	20
28	15	15	15	15	16	16	16	16	17	17	17	17	18	18	18	18	19	19	19	19
29	14	15	15	15	15	16	16	16	16	17	17	17	17	18	18	18	18	18	19	19
30	14	14	15	15	15	15	16	16	16	16	16	17	17	17	17	18	18	18	18	19
31	14	14	14	15	15	15	15	15	16	16	16	16	17	17	17	17	17	18	18	18
32	14	14	14	14	15	15	15	15	15	16	16	16	16	16	17	17	17	17	18	18
33	13	14	14	14	14	14	15	15	15	15	16	16	16	16	16	17	17	17	17	17
34	13	13	14	14	14	14	14	15	15	15	15	15	16	16	16	16	17	17	17	17
35	13	13	13	14	14	14	14	14	15	15	15	15	15	16	16	16	16	16	17	17
36	13	13	13	13	14	14	14	14	14	15	15	15	15	15	16	16	16	16	16	17
37	13	13	13	13	13	14	14	14	14	14	15	15	15	15	15	15	16	16	16	16
38	12	13	13	13	13	13	14	14	14	14	14	14	15	15	15	15	15	16	16	16
39	12	12	13	13	13	13	13	13	14	14	14	14	14	15	15	15	15	15	16	16
40	12	12	12	13	13	13	13	13	13	14	14	14	14	14	15	15	15	[illegible]	[illegible]	15
41	12	12	12	12	13	13	13	13	13	13	14	14	14	14	14	15	[illegible]	[illegible]	15	15
42	12	12	12	12	12	13	13	13	13	13	13	14	14	14	14	14	15	15	15	15
43	12	12	12	12	12	12	13	13	13	13	13	13	14	14	14	14	14	14	15	15
44	11	12	12	12	12	12	12	13	13	13	13	13	13	14	14	14	14	14	14	15
45	11	11	12	12	12	12	12	12	13	13	13	13	13	13	14	14	14	14	14	14
46	11	11	11	12	12	12	12	12	12	13	13	13	13	13	13	14	14	14	14	14
47	11	11	11	11	12	12	12	12	12	12	13	13	13	13	13	13	14	14	14	14
48	11	11	11	11	11	12	12	12	12	12	12	13	13	13	13	13	13	14	14	14
49	11	11	11	11	11	11	12	12	12	12	12	12	13	13	13	13	13	13	14	14

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
50	11	11	11	11	11	11	12	12	12	12	12	12	12	13	13	13	13	13	13	14
51	10	11	11	11	11	11	11	12	12	12	12	12	12	12	13	13	13	13	13	13
52	10	11	11	11	11	11	11	11	12	12	12	12	12	12	12	13	13	13	13	13
53	10	10	11	11	11	11	11	11	11	12	12	12	12	12	12	12	13	13	13	13
54	10	10	10	11	11	11	11	11	11	11	12	12	12	12	12	12	12	13	13	13
55	10	10	10	10	11	11	11	11	11	11	11	12	12	12	12	12	12	12	13	13
56	10	10	10	10	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	13
57	10	10	10	10	10	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12
58	10	10	10	10	10	10	11	11	11	11	11	11	11	12	12	12	12	12	12	12
59	10	10	10	10	10	10	10	11	11	11	11	11	11	11	12	12	12	12	12	12
60	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	12	12	12	12	12
61	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	12	12	12	12
62	9	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	12	12	12	12
63	9	9	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	12	12	12
64	9	9	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	12	12
65	9	9	9	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	12
66	9	9	9	9	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11
67	9	9	9	9	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11
68	9	9	9	9	9	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11
69	9	9	9	9	9	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11
70	9	9	9	9	9	9	10	10	10	10	10	10	10	10	11	11	11	11	11	11
71	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	11	11	11	11	11
72	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	11	11	11	11
73	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	11	11	11
74	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	11	11	11
75	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	11	11
76	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	11

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
77	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10
78	8	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10
79	8	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10
80	8	8	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10
81	8	8	8	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10
82	8	8	8	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10
83	8	8	8	8	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10
84	8	8	8	8	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10
85	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10
86	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	10	10	10	10
87	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	10	10	10	10
88	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	10	10	10
89	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	10	10
90	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	10	10
91	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	10
92	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	10
93	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9
94	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9
95	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9
96	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9
97	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9
98	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9
99	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9
100	7	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
0																				
1																				
2																				
3	60	61	62	63	64	65	66	67	68	69	69	70	71	72	73	74	75	76	77	78
4	56	57	58	59	59	60	61	62	63	64	64	65	66	67	68	69	69	70	71	72
5	52	53	53	54	55	56	56	57	58	59	59	60	61	62	62	63	64	65	65	66
6	48	49	49	50	51	51	52	53	54	54	55	56	56	57	58	58	59	60	60	61
7	45	45	46	47	47	48	48	49	50	50	51	52	52	53	53	54	55	55	56	57
8	42	42	43	43	44	45	45	46	46	47	48	48	49	49	50	50	51	52	52	53
9	39	40	40	41	41	42	42	43	43	44	45	45	46	46	47	47	48	48	49	49
10	37	37	38	38	39	39	40	40	41	41	42	42	43	43	44	44	45	45	46	46
11	35	35	36	36	37	37	38	38	39	39	40	40	41	41	42	42	42	43	43	44
12	33	34	34	35	35	35	36	36	37	37	38	38	39	39	39	40	40	41	41	42
13	32	32	33	33	33	34	34	35	35	35	36	36	37	37	38	38	38	39	39	40
14	30	31	31	31	32	32	33	33	33	34	34	35	35	35	36	36	37	37	37	38
15	29	29	30	30	31	31	31	32	32	32	33	33	34	34	34	35	35	35	36	36
16	28	28	29	29	29	30	30	30	31	31	32	32	32	33	33	33	34	34	34	35
17	27	27	28	28	28	29	29	29	30	30	30	31	31	31	32	32	32	33	33	33
18	26	26	27	27	27	28	28	28	29	29	29	30	30	30	31	31	31	32	32	32
19	25	25	26	26	26	27	27	27	28	28	28	29	29	29	29	30	30	30	31	31
20	24	25	25	25	25	26	26	26	27	27	27	28	28	28	29	29	29	29	30	30
21	24	24	24	24	25	25	25	26	26	26	26	27	27	27	28	28	28	29	29	29
22	23	23	23	24	24	24	25	25	25	25	26	26	26	27	27	27	27	28	28	28

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
23	22	22	23	23	23	24	24	24	24	25	25	25	26	26	26	26	27	27	27	27
24	22	22	22	22	23	23	23	23	24	24	24	25	25	25	25	26	26	26	26	27
25	21	21	22	22	22	22	23	23	23	23	24	24	24	24	25	25	25	25	26	26
26	21	21	21	21	22	22	22	22	23	23	23	23	24	24	24	24	25	25	25	25
27	20	20	21	21	21	21	22	22	22	22	22	23	23	23	23	24	24	24	24	25
28	20	20	20	20	21	21	21	21	21	22	22	22	22	23	23	23	23	24	24	24
29	19	19	20	20	20	20	21	21	21	21	21	22	22	22	22	23	23	23	23	23
30	19	19	19	19	20	20	20	20	21	21	21	21	21	22	22	22	22	22	23	23
31	18	19	19	19	19	19	20	20	20	20	21	21	21	21	21	22	22	22	22	22
32	18	18	18	19	19	19	19	20	20	20	20	20	21	21	21	21	21	22	22	22
33	18	18	18	18	18	19	19	19	19	20	20	20	20	20	21	21	21	21	21	22
34	17	18	18	18	18	18	19	19	19	19	19	20	20	20	20	20	21	21	21	21
35	17	17	17	18	18	18	18	18	19	19	19	19	19	20	20	20	20	20	21	21
36	17	17	17	17	18	18	18	18	18	18	19	19	19	19	19	20	20	20	20	20
37	16	17	17	17	17	17	18	18	18	18	18	19	19	19	19	19	19	20	20	20
38	16	16	17	17	17	17	17	17	18	18	18	18	18	19	19	19	19	19	19	20
39	16	16	16	16	17	17	17	17	17	18	18	18	18	18	18	19	19	19	19	19
40	16	16	16	16	16	17	17	17	17	17	17	18	18	18	18	18	18	19	19	19
41	15	16	16	16	16	16	16	17	17	17	17	17	18	18	19	18	18	18	19	19
42	15	15	16	16	16	16	16	16	17	17	17	17	17	17	18	18	18	18	18	18
43	15	15	15	15	16	16	16	16	16	16	17	17	17	17	17	17	18	18	18	18
44	15	15	15	15	15	16	16	16	16	16	16	17	17	17	17	17	17	18	18	18
45	15	15	15	15	15	15	16	16	16	16	16	16	16	17	17	17	17	17	17	18
46	14	15	15	15	15	15	15	15	16	16	16	16	16	16	17	17	17	17	17	17
47	14	14	14	15	15	15	15	15	15	16	16	16	16	16	16	17	17	17	17	17
48	14	14	14	14	15	15	15	15	15	15	16	16	16	16	16	16	16	17	17	17
49	14	14	14	14	14	15	15	15	15	15	15	15	16	16	16	16	16	16	17	17

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
50	14	14	14	14	14	14	15	15	15	15	15	15	15	16	16	16	16	16	16	16
51	13	14	14	14	14	14	14	15	15	15	15	15	15	15	16	16	16	16	16	16
52	13	13	14	14	14	14	14	14	14	15	15	15	15	15	15	15	16	16	16	16
53	13	13	13	14	14	14	14	14	14	14	15	15	15	15	15	15	15	16	16	16
54	13	13	13	13	14	14	14	14	14	14	14	15	15	15	15	15	15	15	16	16
55	13	13	13	13	13	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15
56	13	13	13	13	13	13	14	14	14	14	14	14	14	15	15	15	15	15	15	15
57	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	15	15	15	15	15
58	12	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	15	15	15	15
59	12	12	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	15	15	15
60	12	12	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	15	15
61	12	12	12	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	15
62	12	12	12	12	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14
63	12	12	12	12	12	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14
64	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	14	14	14	14	14
65	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	14	14	14	14
66	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	14	14	14
67	11	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	14	14
68	11	11	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	14
69	11	11	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13
70	11	11	11	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13
71	11	11	11	11	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13
72	11	11	11	11	11	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13
73	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	13	13	13	13	13
74	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	13	13	13	13
75	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	13	13	13
76	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	13	13

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
77	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	13
78	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12
79	10	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12
80	10	10	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12
81	10	10	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12
82	10	10	10	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12
83	10	10	10	10	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12
84	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12
85	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	12	12	12	12
86	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	12	12	12
87	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	12	12
88	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	12	12
89	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	12
90	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11
91	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11
92	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11
93	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11
94	9	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11
95	9	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11
96	9	9	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11
97	9	9	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11
98	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11
99	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11
100	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
0																				
1																				
2																				100
3	79	80	80	81	82	83	84	85	86	87	88	89	90	91	91	92	93	94	95	96
4	73	74	74	75	76	77	78	79	79	80	81	82	83	84	84	85	86	87	88	88
5	67	68	68	69	70	71	71	72	73	74	74	75	76	77	77	78	79	80	80	81
6	62	62	63	64	64	65	66	66	67	68	68	69	70	70	71	72	72	73	74	74
7	57	58	58	59	60	60	61	62	62	63	63	64	65	65	66	66	67	68	68	69
8	53	54	54	55	56	56	57	57	58	58	59	60	60	61	61	62	62	63	63	64
9	50	50	51	51	52	53	53	54	54	55	55	56	56	57	57	58	58	59	59	60
10	47	47	48	48	49	49	50	50	51	51	52	52	53	53	54	54	55	55	56	56
11	44	45	45	46	46	47	47	48	48	48	49	49	50	50	51	51	52	52	53	53
12	42	42	43	43	44	44	45	45	46	46	46	47	47	48	48	49	49	49	50	50
13	40	40	41	41	42	42	42	43	43	44	44	45	45	45	46	46	47	47	47	48
14	38	39	39	39	40	40	41	41	41	42	42	42	43	43	44	44	44	45	45	46
15	37	37	37	38	38	38	39	39	40	40	40	41	41	41	42	42	42	43	43	44
16	35	35	36	36	36	37	37	38	38	38	39	39	39	40	40	40	41	41	41	42
17	34	34	34	35	35	35	36	36	36	37	37	37	38	38	39	39	39	39	40	40
18	33	33	33	33	34	34	34	35	35	35	36	36	36	37	37	37	38	38	38	39
19	31	32	32	32	33	33	33	34	34	34	34	35	35	35	36	36	36	37	37	37
20	30	31	31	31	32	32	32	32	33	33	33	34	34	34	34	35	35	35	36	36
21	29	30	30	30	31	31	31	31	32	32	32	33	33	33	33	34	34	34	35	35
22	28	29	29	29	30	30	30	30	31	31	31	32	32	32	32	33	33	33	33	34

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
23	28	28	28	28	29	29	29	30	30	30	30	31	31	31	31	32	32	32	32	33
24	27	27	27	28	28	28	28	29	29	29	29	30	30	30	31	31	31	31	32	32
25	26	26	27	27	27	27	28	28	28	28	29	29	29	29	30	30	30	30	31	31
26	26	26	26	26	26	27	27	27	27	28	28	28	28	29	29	29	29	30	30	30
27	25	25	25	26	26	26	26	27	27	27	27	27	28	28	28	28	29	29	29	29
28	24	25	25	25	25	25	26	26	26	26	27	27	27	27	27	28	28	28	28	29
29	24	24	24	24	25	25	25	25	26	26	26	26	26	27	27	27	27	27	28	28
30	23	23	24	24	24	24	24	25	25	25	25	26	26	26	26	26	27	27	27	27
31	23	23	23	23	24	24	24	24	24	25	25	25	25	25	26	26	26	26	26	27
32	22	22	23	23	23	23	23	24	24	24	24	24	25	25	25	25	26	26	26	26
33	22	22	22	22	23	23	23	23	23	24	24	24	24	24	25	25	25	25	25	26
34	21	22	22	22	22	22	23	23	23	23	23	24	24	24	24	24	24	25	25	25
35	21	21	21	22	22	22	22	22	22	23	23	23	23	23	24	24	24	24	24	25
36	21	21	21	21	21	21	22	22	22	22	22	23	23	23	23	23	24	24	24	24
37	20	20	21	21	21	21	21	21	22	22	22	22	22	23	23	23	23	23	23	24
38	20	20	20	20	21	21	21	21	21	21	22	22	22	22	22	23	23	23	23	23
39	20	20	20	20	20	20	21	21	21	21	21	21	22	22	22	22	22	22	23	23
40	19	19	20	20	20	20	20	20	21	21	21	21	21	21	22	22	22	22	22	22
41	19	19	19	19	20	20	20	20	20	20	21	21	21	21	21	21	22	22	22	22
42	19	19	19	19	19	19	20	20	20	20	20	20	21	21	21	21	21	21	22	22
43	18	18	19	19	19	19	19	19	20	20	20	20	20	20	21	21	21	21	21	21
44	18	18	18	19	19	19	19	19	19	19	20	20	20	20	20	20	21	21	21	21
45	18	18	18	18	18	19	19	19	19	19	19	19	20	20	20	20	20	20	21	21
46	18	18	18	18	18	18	18	19	19	19	19	19	19	20	20	20	20	20	20	20
47	17	17	18	18	18	18	18	18	18	19	19	19	19	19	19	20	20	20	20	20
48	17	17	17	17	18	18	18	18	18	18	19	19	19	19	19	19	19	20	20	20
49	17	17	17	17	17	18	18	18	18	18	18	18	19	19	19	19	19	19	19	20

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
50	17	17	17	17	17	17	17	18	18	18	18	18	18	18	19	19	19	19	19	19
51	16	17	17	17	17	17	17	17	18	18	18	18	18	18	18	19	19	19	19	19
52	16	16	16	17	17	17	17	17	17	17	18	18	18	18	18	18	18	19	19	19
53	16	16	16	16	17	17	17	17	17	17	17	17	18	18	18	18	18	18	19	19
54	16	16	16	16	16	16	17	17	17	17	17	17	17	18	18	18	18	18	18	18
55	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	18	18	18	18	18
56	15	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	18	18	18	18
57	15	15	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	18	18
58	15	15	15	15	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17
59	15	15	15	15	15	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17
60	15	15	15	15	15	15	16	16	16	16	16	16	16	16	17	17	17	17	17	17
61	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	17	17	17	17
62	14	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	17	17	17
63	14	14	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16	17
64	14	14	14	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16
65	14	14	14	14	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16
66	14	14	14	14	14	14	15	15	15	15	15	15	15	15	16	16	16	16	16	16
67	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	16	16	16	16	16
68	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	16	16	16	16
69	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	16	16	16
70	13	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	15
71	13	13	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15
72	13	13	13	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15
73	13	13	13	13	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15
74	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	15	15	15	15	15
75	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	15	15	15	15
76	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	14	15	15

TABLE FOR ALPHA EQUAL .0001 CONTINUED

ROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOTAL NUMBER OF CORRECT RESPONSES

	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
77	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	14	15
78	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	14
79	12	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14
80	12	12	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14
81	12	12	12	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14
82	12	12	12	12	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14
83	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14
84	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	14	14	14	14
85	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	14	14	14
86	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	13	14
87	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	13	13
88	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	13
89	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13
90	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13
91	11	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13
92	11	11	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13
93	11	11	11	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13
94	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13
95	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13
96	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13
97	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	13	13
98	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	13
99	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12
00	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12

APPENDIX E

```
PROGRAM FOR MATHEMATICAL DECISION MODEL TO GENERATE PROBABILITY TABLES.


THIS PROGRAM COMPUTES TERMINAL RUN PROBABILITIES FOR RUNS OF LENGTH X, AND
REPORTS THE MINIMUM LENGTH NECESSARY TO ACHIEVE A GIVEN DECISION LEVEL.
C IS A CORRECT RESPONSE AND E IS AN ERROR RESPONSE.
T = THE TOTAL NUMBER OF TRIALS, AND K = THE TERMINAL RUN OF CORRECT RESPONSES
KC IS FIRST COLUMN FOR TABLE AND LC IS LAST COLUMN FOR TABLE.
KE IS FIRST ROW FOR TABLE AND LE IS LAST ROW FOR TABLE.
THE DECISION MODEL IS BASED UPON THE BINOMIAL AND THE NEGATIVE BINOMIAL FNS.

THE PROGRAM IS DIMENSIONED FOR FIVE DECISION LEVELS MAXIMUM.
   DIMENSION NRUN(100,100),NCOL(100), JROW(100), Y(5), JBINOM(100)
   DIMENSION ILINEA(92), ILINEB(92)
------------------------------ INPUT PHASE --------------------------------
   READ (5,97) (ILINEA(LT),LT=1,92)
   READ (5,97) (ILINEB(LT),LT=1,92)
97 FORMAT (80A1/12A1)
   IGO = 0.
26 FORMAT (1H1)
   READ (5,2) KC, LC
   READ (5,2) KE, LE
 2 FORMAT (2I3)
   READ (5,28) NJOBS
28 FORMAT (I1)
C  NJOBS IS FOR DIFFERING ALPHA LEVELS
C  READ ALL PROBABILITY CRITERIA,  ONE PER JOB
   DO 45 J=1, NJOBS
45 READ (5,1) Y(J)
 1 FORMAT (F5.4)
   DO 29 JKL = 1, NJOBS
   ALPHA = Y(JKL)
   WRITE (6,26)
   I = LC - KC + 1
   II = LE - KE + 1
   KROWB = II
```

```
      DO 6 M = 1, I
      KCC = KC - 1 + M
      JROW (M) = JROW(KCC)
      JLINOM(M) = IQQ
      JROW(KCC) = IQQ
      NCOL(M) = M + KC - 1
      DO 6 J = 1, II
    6 NRUN (J,M ) = IQQ
-------------------------------- ANALYSIS PHASE --------------------------------
      DO 12 LLL = KE, LE
      KKK = LLL - KE + 1
      E = LLL
C COMPUTE PROBABILITIES BY INCREMENTING ACROSS ROWS
      DO 8 LL = KC,LC
      KK = LL - KC + 1
      C = LL
      IF (E-1.) 38, 38, 39
   39 PROB = 1./ (C + 1.)
      K = C
      IF (PROB - ALPHA) 46, 46, 8
   46 NRUN(1,KK) = K
      GO TO 8
   38 T = E + C
C THE TERMINAL SEQUENCE, K, CANNOT BE LARGER THAN THE NUMBER OF CORRECTS, C.
C START COMPUTING THE PROBABILITIES WITH A TERMINAL RUN OF 1, AND INCREMENT RUN
C K IS THE NUMBER OF TERMS IN BOTH THE NUMERATOR AND DENOMINATOR
      DO 7 K = 1, LC
      PROB = E/T
      CUMPRB = PROB
      DO 3 J = 1, K
      CJ = J
      CK = C - CJ + 1.
      TK = T - CJ
      PROB = PROB * (CK/TK)
    3 CUMPRB = CUMPRB + PROB
C PROB IS THE PROBABILITY OF THE TERMINAL RUN CONDITIONAL UPON THE TOTAL
```

```
C   NUMBER OF ERROR RESPONSES AND CORRECT RESPONSES.
      IF (PROB - ALPHA) 16, 16, 7
    7 CONTINUE
C   IF RUN IS LONGER THAN C (AN IMPOSSIBLE SITUATION) INSERT A ZERO IN NRUN.
   16 IF(K.GT.LL) K=0
      NRUN (KKK,KK) = K
    8 CONTINUE
   12 CONTINUE
C   THE ROW FOR ERRORS = 0 , REQUIRES THE BINOMIAL MODEL.
      IF (KE - 1) 55,89,55
   89 DO 73 J = 1, LC
      EZERO = .5**J
      IF (EZERO-ALPHA) 74, 74, 73
   73 CONTINUE
   74 JBINOM(J) = J
      JG = J + 1
      DO 86 J = JG, LC
   86 JBINOM(J) = 0
C  ------------------------------ OUTPUT PHASE ----------------------------------
C   THE REMAINING STATEMENTS ARE FOR OUTPUT CONTROL ONLY.
   55 WRITE (6,26)
      WRITE (6,59) JKL
   59 FORMAT (10X, 11H JOB NUMBER, I2)
      WRITE (6,60) KE, LE
   60 FORMAT (10X, 11H START E AT, I4, 12H FINISH E AT, I4)
      WRITE (6,61) KC, LC
   61 FORMAT (10X, 11H START C AT, I4, 12H FINISH C AT, I4)
      WRITE (6,26)
      NFIRST = 0
      IF (KC - 1) 70, 18, 70
   18 IF (KE - 1) 70,19, 70
   19 DO 41 LSP = 1,2
   41 WRITE (6,25)
      WRITE (6,27)
   27 FORMAT(30X,43H THE NUMBER OF TERMINALLY CORRECT RESPONSES)
      WRITE (6,22) ALPHA
```

```
22 FORMAT (37X, 22 HNEEDED FOR ALPHA EQUAL,1X,F6.4)
   WRITE (6,25)
   WRITE (6,96) (ILINEA(LT), LT = 1,92)
   WRITE (6,96) (ILINEA(LT), LT = 1,92)
96 FORMAT (2X,92A1)
   NFIRST = 1
   GO TO 72
70 CONTINUE
   LX = 26
25 FORMAT (1HO)
72 MA = 1
   MCOL = 20
   MB = MCOL
   MM = (LC - KC + 1) / MCOL + 1
43 DO 37 M = 1, MM
   IF (NFIRST.EQ.1) GO TO 90
   DO 95 LSP = 1,2
95 WRITE (6,25)
   WRITE (6,53) ALPHA
53 FORMAT (34X, 21HTABLE FOR ALPHA EQUAL, 1X, F5.4, 10H CONTINUED)
   WRITE (6,25)
   WRITE (6,96) (ILINEA(LT),LT = 1,92)
90 WRITE (6,40)
40 FORMAT (13X,81HROWS ARE TOTAL NUMBER OF ERRORS AND COLUMNS ARE TOT
  1AL NUMBER OF CORRECT RESPONSES)
   WRITE (6,96) (ILINEA(LT), LT = 1,92)
   WRITE (6,21) (NCOL(J), J = MA,MB)
   WRITE (6,96) (ILINEB(LT), LT = 1,92)
21 FORMAT (14X, 20I4)
   NROW = 0
   JX = 0
   IF (KE - 1) 58, 10, 58
10 WRITE (6,20) JX, (JBINOM(J), J = MA, MB)
20 FORMAT (10X,  I4, 20I4)
   NROW = NROW + 1
   LX = 22
```

```
58 DO 9 I = 1, KROWB
   IK = KE + I - 1
   WRITE (6,20) IK,(NRUN(I,II), II = MA, MB)
   NROW = NROW + 1
   IF (NROW - LX) 88,88,48
88 IF (I.LT.KROWB) GO TO 9
48 WRITE (6,96) (ILINEA(LT), LT = 1,92)
   WRITE (6,26)
   NROW = 0
   IF (I.EQ.KROWB) GO TO 9
   DO 47  LSP = 1,2
47 WRITE (6,25)
   WRITE (6,53) ALPHA
   WRITE (6,25)
   WRITE (6,96) (ILINEA(LT), LT = 1,92)
   WRITE (6,40)
   WRITE (6,96) (ILINEA(LT), LT = 1,92)
   WRITE (6,21) (NCOL(J), J = MA,MB)
   WRITE (6,96) (ILINEB(LT), LT = 1,92)
   LX = 26
 9 CONTINUE
   IF (M.EQ.MM) GO TO 29
   IF (KE.EQ.1) LX = 22
   MA = MB + 1
   MB = MB + MCOL
   WRITE (6,26)
37 CONTINUE
29 CONTINUE
   WRITE (6,26)
   STOP
   END
```